

## University of Groningen

### Origin and growth of peroxisomes in yeast

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# Stellingen

Oorsprong en groei van peroxisomen in gist

## **“Origin and growth of peroxisomes in yeast”**

1. Gaining deeper insights into the communication of peroxisomes with the rest of the cell will unravel the underlying mechanism of their biogenesis, division and function.
2. To understand de novo biogenesis of peroxisomes, generating mutants devoid of peroxisomal membranes may prove beneficial.
3. The presence of pre-peroxisomal vesicles harboring Pex8 and Pex14 in yeast *pex3* cells indicates that multiple peroxisomal membrane protein sorting pathways may exist (chapter 2; Kèvin Knoops et al., 2014, J Cell Biol 204(5):659-668)
4. Membrane lipid incorporation and matrix protein import into peroxisomes may be coupled processes.
5. The differences in the phenotypes of *pex11 ypt7* cells at peroxisome-inducing and peroxisome repressing conditions suggest that contact sites between the peroxisome and the vacuole are regulated by cellular metabolism (chapter 4) .
6. Different people interpret things differently. To succeed in any field we should have our own views.
7. Research can be amazing and frustrating at the same time, you test one hypothesis and end up discovering something else.
8. Logic will get you from A to B. Imagination will take you everywhere (Albert Einstein).